Author Index—Volume 49
January–December 2001

Abshire, Melinda J. 367
Adkins, Steve W. 694
Agboola, Akinola A. 171
Ahmed, Nafisa E. 354
Akey, William C. 61, 69
Al-Khatib, Kassim 8, 14, 454, 598, 732
Alabi, Bamidele S. 171
Alexander, Anita L. 485
Anderson, James V. 581, 590
Anderson, Randy L. 48
Anderson, Richard J. 249
Askew, Shawn D. 184, 549, 768
Ayeni, Albert O. 171
Bàrberi, Paolo 491
Babkiker, Abdel Gabar T. 354
Becker, Roger L. 190
Benefield, Carri B. 83
Bennett, Kenneth A. 359
Bennett, Andrew C. 549
Benvenuti, Stefano 528
Bhowmik, Prasanta C. 423
Binning, Larry K. 177, 334
Blackshaw, Robert E. 406
Blair-Kerth, Lesli K. 375
Blumenthal, Dana 509
Boerboom, Chris M. 22, 31, 177, 217, 334, 635, 675
Booth Barbara D. 798
Bormans, Concetta A. 468
Boswell, A. Lyle 406
Boyer, Jr., John 202
Boyette, Michele 647
Bradley, Kevin W. 477
Breen, John L. 381
Bressan, Ray A. 282
Brown, Ralph B. 359
Buhler, Douglas D. 230
Burgos, Nilda R. 141
Buschena, David 536
Bussan, Alvin J. 22, 31, 536, 675
Carmiol, Jesús 395
Caton, Barney P. 381
Cavan, Graeme 236
Chachalis, Demosthenis 156, 628
Chandler, James M. 468
Chao, Wun S. 581
Chaves, Lilliana 395
Chikoye, David 658
Clay, Sharon A. 431
Clay, David E. 431
Clayton, George W. 746
Clewis, Scott B. 768
Coetzer, Elmé 8, 454
Colquoun, Jed 177, 334
Corbin, Fredrick T. 613
Cousens Roger 579
Cox, Michael S. 367
Cranston, Harwood J. 164
Culpepper, A. Stanley 613
Curran, William S. 524
Currie, Randall S. 202
Cussans, John W. 236
Daoust, Tim 738
Davis, Adam S. 558
Decruyenaere, Joseph G. 760
Deen, William 500, 723
Deryckx, W. 1
Deshpande, Satish 2
DeSutter, Thomas M. 431
Dhima, Kico V. 77
DiTomaso, Joseph M. 83
Doram, Ray C. 406
Dotray, Peter A. 375, 543
Doyle, Robert D. 135
Dyer, William E. 164
Edmisten, Keith L. 460
Ekeleme, Friday 658
Eleftherohorinos, Ilias G. 77
Elmore, C. Dennis 156, 628
Elmore, Clyde L. 61, 69
Eplee, Robert E. 303
Esbenshade, Wade R. 524
Evans, John O. 48
Fandrich, Lynn 717
Fausey, Jason C. 668
Felix, Joel 780
Ferguson, Gabrielle M. 448
Fernandez-Quintanilla, C. 414
Foin, Theodore C. 381
Foley, Michael E. 305
Fonseca, J. F. 123
Franssen, Aaron S. 598, 732
Fredenburg, Tyler B. 282
Friesen, Lyle F. 326
Fujimura, Kikuo 738
Gannaway, John R. 375
Garcia-Torres, Luis 773
Garita, Israel 395
Geier, Patrick W. 788
Gerard, Patrick D. 367
Gibson, Kevin D. 381
Goldsbrough, Peter B. 282
Goldwasser, Yaakov 520
Gonzalez-Andujar, J. L. 414, 773
Goodman, Daniel 536
Goudy, Heather J. 359
Gregg, William P. 303
Hackett, Josette L. 164
Hagood, Jr., Edward S. 477
Hall, Linda M. 746
Hall, J. Christopher 2, 276
Hamill, Allan S. 448
Hansen, Jennifer L. 340
Hargett, Jennifer G. 788
Harikrishnan, R. 241
Harker, K. Neil 746
Harrison, S. Kent 224, 738
Hartwig, Nathan L. 524
Hartzler, Robert G. 230
Harvey, R. Gordon 209
Hasegawa, Paul M. 282
Hatzios, Kriton K. 477, 711
Hembree, Kurt J. 91
Hess, F. Dan 249
Hill, James E. 381
Hines, Thomas E. 106
Hoeft, Eric V. 642
Holt, Jodie S. 760
Horak, Michael J. 202, 598, 617, 732
Horvath, David P. 581, 590
Huang, Jian Zhong 500
Hung, L. Anthony 723
Inanaga, Shinobu 354
Jasieniuk, Marie 48, 257
Johnson, Bradley N. 792
Jordan, Nicholas 509, 642
Kachman, Stephen D. 150
Kalburtji, K. L. 755
Kebede, Zewdu 48
Keeling, J. Wayne 375
Kennedy, Ann C. 792
Kern, Anthony J. 164
Kingery, William L. 571, 685
Knezevic, Stevan Z. 617
Kroschel, Jürgen 346
Kuk, Yong-In 141
Kulakow, Peter A. 598
Kyser, Guy B. 83
Lanini, W. Thomas 520
Liebman, Matt 558
Light, Ginger G. 543
Lindquist, John L. 195, 706
Lopez-Granados, Francisca 773
Loughin, Thomas M. 8, 14
Lownds, Norman K. 42
Luschei, Edward C. 536
Lyon, Drew J. 48
Ma, Yongqing 354
Macchia, Mario 528
Mahan, James R. 543
Majek, Bradley A. 171
Mallory-Smith, Carol A. 340
Mamolos, A. P. 755
Manley, Brian S. 106
Mansfield, Shane 385
Marshall, George 273
Marshall, Michael W. 14
Marth, Janet L. 613
Martin, Steven G. 326
Martin, Alex R. 150, 798
Martinez-Cob, Antonio 773
Marx, David B. 798
Massinga, Rafael A. 202
Masson, Jeffrey A. 652
Maxwell, Bruce D. 48, 164, 257, 536
Mazzoncini, Marco 491
McDonald, Miller B. 738
McDonald, Sandra K. 717
McGiffen, Jr., Milton E. 91, 385
Medlin, Case R. 367
Merayo, A. 123
Miele, Sergio 528
Miller, Erica K. 164
Miller, Stephen D. 48
Mitra, Sowmya 423
Mohamed, Omayma E. 354
Morishita, Don W. 48
Mortensen, David A. 798
Moss, Stephen 236
Moyer, James R. 406
Mulugeta, Dawit 217
Murray, Leigh W. 42
Nakajima, Hiromitsu 354
Newman, Jeff C. 746
Ngouajio, Mathieu 91, 385
Nissen, Scott J. 607, 717
Norman, John M. 334
Norris, Robert F. 61, 69

Author Index—Volume 49
January–December 2001

Abshire, Melinda J. 367
Adkins, Steve W. 694
Agboola, Akinola A. 171
Ahmed, Nafisa E. 354
Akey, William C. 61, 69
Al-Khatib, Kassim 8, 14, 454, 598, 732
Alabi, Bamidele S. 171
Alexander, Anita L. 485
Anderson, James V. 581, 590
Anderson, Randy L. 48
Anderson, Richard J. 249
Askew, Shawn D. 184, 549, 768
Ayeni, Albert O. 171
Bàrberi, Paolo 491
Babkiker, Abdel Gabar T. 354
Becker, Roger L. 190
Benefield, Carri B. 83
Bennett, Kenneth A. 359
Bennett, Andrew C. 549
Benvenuti, Stefano 528
Bhowmik, Prasanta C. 423
Binning, Larry K. 177, 334
Blackshaw, Robert E. 406
Blair-Kerth, Lesli K. 375
Blumenthal, Dana 509
Boerboom, Chris M. 22, 31, 177, 217, 334, 635, 675
Booth Barbara D. 798
Bormans, Concetta A. 468
Boswell, A. Lyle 406
Boyer, Jr., John 202
Boyette, Michele 647
Bradley, Kevin W. 477
Breen, John L. 381
Bressan, Ray A. 282
Brown, Ralph B. 359
Buhler, Douglas D. 230
Burgos, Nilda R. 141
Buschena, David 536
Bussan, Alvin J. 22, 31, 536, 675
Carmiol, Jesús 395
Caton, Barney P. 381
Cavan, Graeme 236
Chachalis, Demosthenis 156, 628
Chandler, James M. 468
Chao, Wun S. 581
Chaves, Lilliana 395
Chikoye, David 658
Clay, Sharon A. 431
Clay, David E. 431
Clayton, George W. 746
Clewis, Scott B. 768
Coetzer, Elmé 8, 454
Colquoun, Jed 177, 334
Corbin, Fredrick T. 613
Cousens Roger 579
Cox, Michael S. 367
Cranston, Harwood J. 164
Culpepper, A. Stanley 613
Curran, William S. 524
Currie, Randall S. 202
Cussans, John W. 236
Daoust, Tim 738
Davis, Adam S. 558
Decruyenaere, Joseph G. 760
Deen, William 500, 723
Deryckx, W. 1
Deshpande, Satish 2
DeSutter, Thomas M. 431
Dhima, Kico V. 77
DiTomaso, Joseph M. 83
Doram, Ray C. 406
Dotray, Peter A. 375, 543
Doyle, Robert D. 135
Dyer, William E. 164
Edmisten, Keith L. 460
Ekeleme, Friday 658
Eleftherohorinos, Ilias G. 77
Elmore, C. Dennis 156, 628
Elmore, Clyde L. 61, 69
Eplee, Robert E. 303
Esbenshade, Wade R. 524
Evans, John O. 48
Fandrich, Lynn 717
Fausey, Jason C. 668
Felix, Joel 780
Ferguson, Gabrielle M. 448
Fernandez-Quintanilla, C. 414
Foin, Theodore C. 381
Foley, Michael E. 305
Fonseca, J. F. 123
Franssen, Aaron S. 598, 732
Fredenburg, Tyler B. 282
Friesen, Lyle F. 326
Fujimura, Kikuo 738
Gannaway, John R. 375
Garcia-Torres, Luis 773
Garita, Israel 395
Geier, Patrick W. 788
Gerard, Patrick D. 367
Gibson, Kevin D. 381
Goldsbrough, Peter B. 282
Goldwasser, Yaakov 520
Gonzalez-Andujar, J. L. 414, 773
Goodman, Daniel 536
Goudy, Heather J. 359
Gregg, William P. 303
Hackett, Josette L. 164
Hagood, Jr., Edward S. 477
Hall, Linda M. 746
Hall, J. Christopher 2, 276
Hamill, Allan S. 448
Hansen, Jennifer L. 340
Hargett, Jennifer G. 788
Harikrishnan, R. 241
Harker, K. Neil 746
Harrison, S. Kent 224, 738
Hartwig, Nathan L. 524
Hartzler, Robert G. 230
Harvey, R. Gordon 209
Hasegawa, Paul M. 282
Hatzios, Kriton K. 477, 711
Hembree, Kurt J. 91
Hess, F. Dan 249
Hill, James E. 381
Hines, Thomas E. 106
Hoeft, Eric V. 642
Holt, Jodie S. 760
Horak, Michael J. 202, 598, 617, 732
Horvath, David P. 581, 590
Huang, Jian Zhong 500
Hung, L. Anthony 723
Inanaga, Shinobu 354
Jasieniuk, Marie 48, 257
Johnson, Bradley N. 792
Jordan, Nicholas 509, 642
Kachman, Stephen D. 150
Kalburtji, K. L. 755
Kebede, Zewdu 48
Keeling, J. Wayne 375
Kennedy, Ann C. 792
Kern, Anthony J. 164
Kingery, William L. 571, 685
Knezevic, Stevan Z. 617
Kroschel, Jürgen 346
Kuk, Yong-In 141
Kulakow, Peter A. 598
Kyser, Guy B. 83
Lanini, W. Thomas 520
Liebman, Matt 558
Light, Ginger G. 543
Lindquist, John L. 195, 706
Lopez-Granados, Francisca 773
Loughin, Thomas M. 8, 14
Lownds, Norman K. 42
Luschei, Edward C. 536
Lyon, Drew J. 48
Ma, Yongqing 354
Macchia, Mario 528
Mahan, James R. 543
Majek, Bradley A. 171
Mallory-Smith, Carol A. 340
Mamolos, A. P. 755
Manley, Brian S. 106
Mansfield, Shane 385
Marshall, George 273
Marshall, Michael W. 14
Marth, Janet L. 613
Martin, Steven G. 326
Martin, Alex R. 150, 798
Martinez-Cob, Antonio 773
Marx, David B. 798
Massinga, Rafael A. 202
Masson, Jeffrey A. 652
Maxwell, Bruce D. 48, 164, 257, 536
Mazzoncini, Marco 491
McDonald, Miller B. 738
McDonald, Sandra K. 717
McGiffen, Jr., Milton E. 91, 385
Medlin, Case R. 367
Merayo, A. 123
Miele, Sergio 528
Miller, Erica K. 164
Miller, Stephen D. 48
Mitra, Sowmya 423
Mohamed, Omayma E. 354
Morishita, Don W. 48
Mortensen, David A. 798
Moss, Stephen 236
Moyer, James R. 406
Mulugeta, Dawit 217
Murray, Leigh W. 42
Nakajima, Hiromitsu 354
Newman, Jeff C. 746
Ngouajio, Mathieu 91, 385
Nissen, Scott J. 607, 717
Norman, John M. 334
Norris, Robert F. 61, 69

Northam, Francis E. 48
O'Donnell, Chris C. 694
O'Donovan, John T. 746
Ogbuchiekwe, Edmund 385
Ogg, Jr., Alex G. 48, 149
Oliver, Mel J. 375
Orzolek, Michael D. 524
Oswald, Andreas 346
Ottis, Brian V. 468
Owen, Micheal D. K. 780
Park, William D. 468
Patzoldt, William L. 485
Paulsgrove, Mary D. 567
Pester, Todd A. 607
Plant, R. E. 414
Pline, Wendy A. 460
Poston, Daniel H. 711
Prazak-Havey, Ann M. 468
Price, Andrew J. 460
Quisenberry, Jerry E. 375
Raab, Carolyn 149
Ragsdale, David W. 190
Rahimian, Hamid 500
Ramírez, Fernando 395
Rankins, Jr., Alfred 647
Ransom, Joel K. 346
Reagan, Jeff D. 249
Reddy, Krishna N. 156, 628
Regnier, Emilie E. 224, 738
Rejmánek, Marcel 61, 69
Renner, Karen A. 668
Riches, Charles R. 395
Robinson, Darren 746
Roth, Gregory W. 524
Sako, Yusako 738
Santel, Hans J. 717
Sauerborn, Joachim 346
Schmitzer, Paul R. 485
Schmoll, Jerron T. 224
Scott, George H. 549
Seefeldt, Steven S. 48
Seifert, Simone 571, 685
Shaner, Dale L. 248
Shaw, David R. 367, 571, 647, 685
Shrestha, Anil 500
Singh, Bijay K. 266
Skinner, Luke C. 190
Skinner, Daniel Z. 598, 732
Smart, R. Michael 135
Smeda, Reid J. 99
Smith, M. C. 123
Sneller, Clay H. 468
Snipes, Charles E. 571
Stahlman, Phillip W. 48, 788
Stamm-Katovich, Elizabeth J. 190
Steele, Marcus L. 628
Sterling, Tracy M. 42
Stoltenberg, David E. . . . 22, 177, 217, 334, 635
Strebe, Timothy A. 806
Stubbs, Tami L. 792
Sugimoto, Yukihiro 354
Swanton, Clarence J. 500, 723
Talbert, Ronald E. 141, 806
Talbott Roché, Cindy 439
Tardif, François J. 359, 448
Thill, Donald C. 439
Tollenaar, Matthijs 500
Tranel, Patrick J. 318, 485
Troyer, James R. 290
Tschohl, Alison 83
Udensi, Udensi E. 658
Valverde, Bernal E. 123, 395
VanGessel, Mark J. 703
Van Acker, Rene C. 326
Van Wychen, Lee R. 209, 536
Vanderlip, Richard L. 617
Vargas, Erick 395
Vaughan, L. Kelly 468
Volenberg, Dean S. 635
Wang, Zhining 340
Wang, Youlin 2
Wardlaw, III, Milton C. 367
Wassom, James J. 318
We, Jingrui 477
Webb, Jason E. 224
Webster, Eric P. 652
Wedberg, John L. 209
Weller, Stephen C. 99, 282
Wells, Randy 460
Wesley, Richard A. 571, 685
Westbrooks, Randy G. 303
Westra, Philip 48, 607, 717
Whatley, Laura 298
Wicks, Gail A. 48
Wilcut, John W. . . . 184, 460, 549, 567, 768
Williams, II, Martin M. 798
Wilson, Henry P. 106, 711
Wilson, Robert G. 150
Wrobel, Russell L. 520
Wu, Jingrui 711
Wyse, Donald L. 642
Xing, Baoshan 423
Yang, X. B. 241
York, Alan C. 613
Zablotowicz, Robert M. 685
Zemetra, Robert S. 340
Zhang, Jianhua 642
Zhen, Rui-Guang 266
Zheng, Hong-Gang 276
Ziska, Lewis H. 437, 622

UNITED STATES POSTAL SERVICE™

Statement of Ownership, Management, and Circulation

(Required by 39 USC 3685)

1. Publication Title	2. Publication Number	3. Filing Date
Weed Science	0 0 4 3 - 1 7 4 5	
4. Issue Frequency	5. Number of Issues Published Annually	6. Annual Subscription Price
Bi-Monthly	6	$100.00

7. Complete Mailing Address of Known Office of Publication (Not printer) (Street, city, county, state, and ZIP+4)
Weed Science Society of America, 810 East 10th St., Lawrence, KS 66044-8897
Contact Person: Rhonda Green
Telephone: 785-843-1221 ext. 220

8. Complete Mailing Address of Headquarters or General Business Office of Publisher (Not printer)
Weed Science Society of America, 810 East 10th St., Lawrence, KS 66044-8897

9. Full names and Complete Mailing Addresses of Publisher, Editor, and Managing Editor (Do not leave blank)

Publisher (Name and complete mailing address)
Weed Science Society of America, 810 East 10th St., Lawrence, KS 66044-8897

Editor (Name and complete mailing address)
Robert L. Zimdahl, Weed Research Laboratory, Colorado State University, Fort Collins, CO 80523

Managing Editor (Name and complete mailing address)
Sheila Rake, 810 East 10th St., Lawrence, KS 66044-8897

10. Owner (Do not leave blank. If the publication is owned by a corporation, give the name and address of the corporation immediately followed by the names and addresses of all stockholders owning or holding 1 percent or more of the total amount of stock. If not owned by a corporation, give the names and addresses of the individual owners. If owned by a partnership or other unincorporated firm, give its name and address as well as those of each individual owner. If the publication is published by a nonprofit organization, give its name and address.)

Full Name	Complete Mailing Address
Weed Science Society of America	810 East 10th St., Lawrence, KS 66044-8897

11. Known Bondholders, Mortgagees, and Other Security Holders Owning or Holding 1 Percent or More of Total Amount of Bonds, Mortgages, or Other Securities. If none, check box → ☑ None

Full Name	Complete Mailing Address

12. Tax Status (For completion by nonprofit organizations authorized to mail at special rates) (Check one)
The purpose, function, and nonprofit status of this organization and the exempt status for federal income tax purposes:
☑ Has Not Changed During Preceding 12 Months
☐ Has Changed During Preceding 12 Months (Publisher must submit explanation of change with this statement)

PS Form 3526, September 1998 (See Instructions on Reverse) Computerized Facsimile

13. Publication Title: Weed Science	14. Issue Date for Circulation Data Below: July-August 2001	
15. Extent and Nature of Circulation	Average No. Copies Each Issue During Preceding 12 Months	Actual No. Copies of Single Issue Published Nearest to Filing Date
a. Total Number of Copies (Net press run)	2875	2700
b. Paid and/or Requested Circulation (1) Paid/Requested Outside-County Mail Subscriptions stated on Form 3541. (Include advertiser's proof and exchange copies)	2339	2252
(2) Paid In-County Subscriptions (Include advertiser's proof and exchange copies)	0	0
(3) Sales Through Dealers and Carriers, Street Vendors, Counter Sales, and Other Paid Distribution	172	184
(4) Other Classes Mailed Through the USPS	1	0
c. Total Paid and/or Requested Circulation (Sum of 15b(1), (2),(3), and (4)) ▶	2378	2468
d. Free Distribution by Mail (Samples, complimentary, and other free) (1) Outside-County as Stated on Form 3541	23	26
(2) In-County as Stated on Form 3541	0	0
(3) Other Classes Mailed Through the USPS	0	0
e. Free Distribution Outside the Mail (Carriers or other means)	6	6
f. Total Free Distribution (Sum of 15d and 15e) ▶	29	32
g. Total Distribution (Sum of 15c and 15f) ▶	2404	2498
h. Copies not Distributed	471	212
i. Total (Sum of 15g. and h.) ▶	2875	2700
Percent Paid and/or Requested Circulation (15c divided by 15g times 100)	98.8	98.7

16. Publication of Statement of Ownership
☑ Publication required. Will be printed in the 6th issue of this publication ☐ Publication not required.

17. Signature and Title of Editor, Publisher, Business Manager, or Owner
Date: 9/25/01

I certify that all information furnished on this form is true and complete. I understand that anyone who furnishes false or misleading information on this form or who omits material or information requested on the form may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including civil penalties).

Instructions to Publishers

1. Complete and file one copy of this form with your postmaster annually on or before October 1. Keep a copy of the completed form for your records.
2. In Cases where the stockholder or security holder is a trustee, include in items 10 and 11 the name of the person or corporation for whom the trustee is acting. Also include the names and addresses of individuals who are stockholders who own or hold 1 percent or more of the total amount of bonds, mortgages, or other securities of the publishing corporation. In item 11, if none, check the box. Use blank sheets if more space is required.
3. Be sure to furnish all circulation information called for in item 15. Free circulation must be shown in items 15d, e, and f.
4. Item 15h., Copies not Distributed, must include (1) newsstand copies originally stated on Form 3541, and returned to the publisher, (2) estimated returns from news agents, and (3), copies for office use, leftovers, spoiled, and all other copies not distributed.
5. If the publication had Periodicals authorization as a general or requester publication, this Statement of Ownership, Management, and Circulation must be published; it must be printed in any issue in October or, if the publication is not published during October, the first issue printed after October.
6. In item 16, indicate the date of the issue in which this Statement of Ownership will be published.
7. Item 17 must be signed.

Failure to file or publish a statement of ownership may lead to suspension of second-class authorization.

PS Form 3526, September 1998(Reverse) Computerized Facsimile

Subject Index—Volume 49
January–December 2001

ABA 581
ABKDO 760
abscisic acid 581
absorption 8, 454, 460, 477, 607, 613, 711, 717
ABUTH . . . 22, 31, 91, 141, 195, 230, 528, 668, 706, 798
Abutilon theophrasti . . . 22, 31, 91, 141, 195, 230, 528, 668, 706, 798
ACC 276
ACCase inhibitor 236
acetochlor 431
acetolactate synthase . . . 448, 485, 543, 652, 711
acetolactate synthase inhibitors 635
acetyl-CoA carboxylase 477
acifluorfen 15, 359, 628
activating protein kinase 590
adjuvant 156
adsorption 806
adventitious buds 590
AEGCY 48, 340, 607, 788
Aegilops cylindrica . . . 48, 340, 607, 717, 788
AFLPS 257
agriculture 249
agricultural landscape 414
AGRRE 326
alachlor 431
aldicarb 613
alien plants 439
allelopathy 141, 406, 558
allozymes 257
ALOMY 528
Alopecurus myosuroides 528
ALS 652
ALS herbicides 652
ALS inhibition 717
ALS inhibitor 14, 106, 448, 711
ALS inhibitor resistance 448
ALS resistance 598
AMAAL 732
AMAAR 732
AMABL 732
AMACH 106, 549, 711, 732
AMAPA . . 8, 141, 202, 454, 543, 549, 598
AMAPO 448, 732
Amaranthus 8, 217, 598, 780
Amaranthus albus 732
Amaranthus arenicola 732
Amaranthus blitoides 732
Amaranthus cruentus 732
Amaranthus hybridus 106, 549, 711, 732
Amaranthus palmeri . . . 8, 59, 141, 202, 454, 543, 598, 732
Amaranthus powellii 448, 732
Amaranthus retroflexus 8, 106, 326, 448, 491, 528, 617, 668, 732
Amaranthus rudis 8, 230, 598, 732
Amaranthus species 732
Amaranthus spinosus 732
Amaranthus tuberculatus 73
AMARE . . . 8, 68, 106, 326, 448, 528, 617, 732
AMASP 732
AMATA 8, 230, 598, 732
AMATU 732
AMBEL 106, 485, 723, 768
Ambrosia artemisiifolia . . . 106, 485, 723, 768
Ambrosia trifida 224, 738
AMBTR 224, 738
ammonium accumulation 454
Amp = Amipicillin 590
Amplified fragment length polymorphism 257
AMPPA 732
Andropogon gerardii 647
anion adsorption 806
annual invaders 439
annual weeds 694
annualized net return 31
Anoda cristata 567
ANR 31
ANVCR 567
application method 460
application time 668
aquatic weeds 135
Arabidopsis thaliana 282, 266
Arachis hypogaea 768
ARBTH 266, 282
Arundo donax 760
aryloxyphenoxypropionate 236, 477
Asteracae 150
atrazine 99, 106, 359, 431
auxenic herbicide 42, 164, 276
auxenic herbicide resistance 2, 276
auxin binding protein 276
auxin receptor 276
AVEFA 236, 326, 536, 694, 746
Avena fatua 236, 326, 536, 694, 746
Avena sterilis 77, 414
Avena sterilis ssp *ludoviciana* 414
AVEST 77
backcross 340
BAR gene 375
barley 77
barley seeding 746
barnyardgrass . . . 61, 69, 141, 326, 528, 617, 652
BAY MKH 6561 717
bensulfuron 381
bentazon 15, 99, 628, 642
bialaphos 375
bialaphos resistant gene 375
big bluestem 647
bioassay 571, 792
biochemical 635
biological control . . 31, 123, 190, 354, 642, 792
biological days 500
biological invasion case study 439
biological risk 340
biomass reduction 755
biotypes 318, 477
blackgrass 528
black nightshade 4991, 528
Brassica arvensis 141
Brassica juncea 406
Brassica kaber 276, 326, 528, 558
Brassica napus 326
Brassica oleracea 385
broad bean 773
broadleaf weeds 106
broccoli 385
BROJA 788
brome 788
bromoxynil 224, 549, 567, 628
bromoxynil-resistant cotton 567
Bromus japonicus 788
Bromus secalinus 788
Bromus tectorum . . . 406, 607, 717, 788, 792
BROSE 788
BROTE 406, 607, 788, 792
BRSJU 406
Brunnichia ovata 156
BRVCI 156
buckhorn plantain 528
burcucumber 99, 524
burial depth 528
buried weed 528
butylate 106
by-products 141
C_3 weed 622
C_4 crop 622
CAK 581, 590
calcium 2, 276
California arrowhead 381
Campsis radicans 156
Canada thistle 509, 528, 642, 755
canola 326
carbamate insecticides 613
carbaryl 99
carbohydrates 150
carbon dioxide 622
Cardamine hirsuta 528
CARHI 528
carryover 571
CASOB 141, 367, 567
cassava 171, 658
cassava production 171
Cassia obtusifolia 141
catchweed bedstraw 528
CDK 581, 590
CDK-activating kinase 581
cDNA 590
cell cycle 581, 590
CENSO 42, 83, 439
Centaurea solstitialis 42, 83, 439
centro 658
Centrosema pubescens 658
CGA-248757 668
CHEAL 106, 177, 217, 326, 334, 359, 491, 500, 528, 617, 668, 780
cheat 788
chemical properties 423
Chenopodium album . . . 106, 177, 217, 326, 334, 359, 491, 500, 528, 617, 668, 780
chlorimuron 65, 156, 359, 485
CIRAR 509, 528, 642, 755
Cirsium arvense 509, 528, 642, 755
CITLA 658
Citrullus lanatus 658
CJNVU 439
classification 738
clay soil 685
clethodim 477
climate change 622, 694
clomazone 99, 613
clomazone insecticide combination 613
clonal propagation 760

cloransulam 485
cloransulam-methyl 485, 711
CMIRA 156
CO_2 assimilation 706
CO_2 concentration 694
cogongrass 658
combinatorial chemistry 249
common chickweed 528
common cocklebur 318, 622
common crupina 439
common hempnettle 326
common lambsquarters . . 26, 106, 217, 317, 334, 359, 491, 520, 528, 617, 668, 780
common purslane 528
common ragweed 106, 485, 723, 768
common rust 20
common sunflower 14
common waterhemp 8, 230, 598, 732
communication 273
competition 69, 77, 91, 184, 195, 224, 326, 385, 406, 706, 755, 768
competitive ability 42, 622
competitive effect 558
competitiveness 14
competitor 381
complex dynamics 414
compost 558
computer decision aids 549
computer image analysis 738
computer program 549
computer visualization 543
CONAR 528
conservation fallow 406
conservation reserve program 780
conservation tillage 642
contact angle 156, 628
Convolvolus arvensis 528
Conyza canadensis 703
corn 22, 31, 106, 123, 141, 177, 195, 202, 217, 224, 334, 359, 491, 524, 571, 635, 658, 675, 703, 706, 798
corn earworm 209
corn gluten meal 141
corn rootworm 209
corn spurry 528
cotton . . . 141, 375, 460, 549, 567, 571, 613, 647
cover crop 123, 406
cover crops 658
cover crop community composition 491
cowpea 658
crenate broomrape 773
crimson clover 491
critical period 326
crop competition 524
crop growth 61
crop height 184
crop injury 798
crop management system 491
crop modeling 195
crop rotation 106
crop yield 61
crop-weed interactions 617
crop-weed interference 48
cropping system 12
cross-resistance 448, 635
cross tolerance 652
crosswire device 385
Croton glandulosus 184
CRP 780
Crupina vulgaris 439
cucumber 141
Cucumis sativus 141
cultural control 236
Cuscuta pentagona 520
cutleaf geranium 528
CVCPE 520
CVNGS 184
cyanazine 209, 597
cyclin-dependent protein kinase . . . 581, 590
cyclohexanedione 236, 477
2, 4-D 2, 99, 290, 276, 359, 685
2, 4-DCP 685
2, 4-dichlorophenol 685
2,4,5-T 290
damage threshold 381
dandelion 150, 326, 359, 406
DATST 106, 528
Datura stramonium 106, 528
de-watering 135
decision aid 48
DEDTO 567
demographic processes 22
density 69
Desmodium tortuosum 567
dessication 135
DESSO 406
Desurainia sophia 406
development 723
development stage 706
dew 668
Diabrotica 209
diacetate 685
dicamba 2, 22, 99, 164, 276, 491
Digitaria sanguinalis 141, 528, 549
DIGSA 141, 528, 549
diketonitrile metabolite 423
dimethenamid 224
dioecious 732
diquat 326
direct injection spayer 359
discovery 249, 290
dispersal 414, 509
dissipation 431, 571
disulfoton 613
DKN 423
DNA marker 468
DNA polymorphism 485
dormancy 581, 590
dormancy regulation 581
dose response 22, 798
dose-responses, winter 788
downy brome 406, 607, 717, 788, 792
drawdowns 135
duration of plant growth 617
eastern gamagrass 647
ECHCG . . 661, 69, 141, 326, 528, 617, 652
ECHCO 395
Echinochloa colona 395
Echinochloa crus-galli 61, 69, 141, 326, 528, 617, 6652
economic optimum threshold 31
economic threshold 48
economic thresholds 184, 768
ecophysiology leaf area index 195
efficacy 8
egusi melon 658
ELEIN 141, 549
Eleusine indica 141, 549
Elytrigia repens 326
emergence cohorts 22
emergence dates 202
enhanced sensitivity 711
environmental effects 668
enzymatic activity 685
enzyme amplification 477
enzyme overproduction 477
EOT 31
EQUAR 359
Equisetum arvense 359
ERICA 703
Eriochloa villosa 230
ERK 581
EST 590
establishment 760
establishment date 524
estimate 385
ethylene 276
Euphorbia esula 581, 590
European corn borer 209
evolution 236
exotic aquatic weed 135
exotic plant pest 439
exponential function 217
expressed sequence tag 590
extracellular-signal-regulated kinase 581
fall panicum 549
fallow 406
FDA 685
fecundity 22, 224, 524
fenoxaprop 106, 536
feral rye 607
fertility 340
FESAR 647
Festuca arundinacea 647
field bindweed 528
field dissipation 571
field horsetail 359
field margins 509
field pea 406
field pennycress 326, 406
field-scale experimentation 536
filter strips 647
flax 406
FLD 738
flixweed 406
fluazifop-P 106, 477
Florida beggarweed 567
flower phenology 83
flumetsulam 359, 448, 806
flumiclorac 668
fluometuron 549, 567, 647
fluorescein 685
fomesafen 106
fosmidomycin 266
foxtail species 780
Freundlich model 423
fructans 150
fructose 150
fruit morphology 738
fruit shape 738
functional genomics 266, 282
functional minimum area 217
Fusarium solani 354
GA 581
GAETE 326
GALAP 528
Galeopsis tetrahit 326
Galerucella 190
Galerucella calmariensis 190
Galerucella pusilla 190
Galium aparine 528
GC-MS 156
gene flow 14, 340, 598
genetic diversity 257, 318
genetic exchange 14
genetic mapping 257
genetic relationships 318
genetic similarity 318
genomics 249, 257, 282, 590
geostatistics 773
Geranium dissectum 528
GERDI 528
germinability 305
germination 99, 354, 792
GFR 581
giant foxtail 230, 635, 675
giant ragweed 224, 738

giant reed 760
giant sensitive plant 171
gibberellic acid 581
glucose 150
glufosinate 8, 326, 375, 454, 468, 628
glutamine synthetase 454
Glycine max 22, 31, 106, 141, 177, 217, 241, 334, 359, 367, 571, 635, 642, 668, 675, 703
glyphosate 99, 156, 224, 241, 326, 395, 460, 491, 549, 628, 703
glyphosate resistance 703
glyphosate resistant 460
goosegrass 141, 549
Gossypium hirsutum 141, 184, 375, 460, 549, 567, 571, 613, 647
GPS 536
grain amaranth 732
green foxtail 326
green manure 406, 558
green pigweed 448
greenhouse effect 694
growth 69, 723
growth factor receptor 581
growth stage 460
HADSS™ 549
hairy bittercress 528
head smut 123
HELAN 14
Helianthus annuus 14
Heliocoverpa zea 209
hemp sesbania 141
HERB 549
herbicidal inhibitors 266
herbicide 106, 266
herbicide degradation 685
herbicide efficacy 628
herbicide-insecticide interactions 613
herbicide loss 647
herbicide mediated 798
herbicide metabolism 164
herbicide rate 22, 375
herbicide regimes 395
herbicide resistance . . . 14, 164, 236, 340, 381, 448, 477, 485, 703, 711
herbicide resistant crop 460, 549, 607
herbicide rotations 106
herbicide transport 431
high throughput synthesis 249
history 290
Hordeum distichon 77
Hordeum vulgare 77, 326, 746
hormone herbicides 290
horsenettle 367
horseweed 703
HORVX 326
host range 792
HPPD 266
hull-less barley 746
humid tropical environment 171
hybrid 340
hybridization 598
hydrilla 135
Hydrilla verticillata 135
IAQTA 628
imazamethabenz 536, 652
imazamox 607, 652
imazapic 652
imazapyr 652
imazaquin 99, 106, 156, 485, 571, 806
imazethapyr 14, 22, 99, 106, 241, 448, 598, 635, 642, 652
imazethapyr-resistance 14
IMI 652
IMI rice 652
IMI tolerant 652
imidazolinone 160, 607, 635, 652
Imidazolinone-resistant 711
Imidazolinone tolerant 652
Imperata cylindrica 658
Indian mustard 406
inhibition 354
insect 209
insects 224
integrated 558
integrated control 642
integrated management 31, 123, 675
integrated pest management 209
integrated weed management . . . 31, 48, 91, 202, 346, 385, 395, 536, 642, 675, 746
integration 273
INTERCOM 195
intercropping 658
interference 61, 77, 91, 202, 171, 184, 195, 385, 755
intersimple sequence repeats 318
interspecific hybridization 598
interspecific hybrids 732
introgression 340
invasion 760
IPM 48
IPOHE 141, 549
IPOLA 367, 567, 628
Ipomoea 628
Ipomoea hederacea 141, 549, 628
Ipomoea lacunosa 367, 567, 628
Ipomoea wrightii 628
IPOWR 628
IPP 266
isotherm 423
ISSR = intersimple sequence repeats . . . 318
Italian ryegrass 141, 385
itchgrass 123
ivyleaf morningglory 141, 549,628
Jacquemontia tamnifolia 628
Japanese brome 788
jimson weed 106, 528
johnsongrass 477, 528
jointed goatgrass 48, 340, 607, 717, 788
junglerice 395
juvenile phase 500
KCHSC 164, 406, 536, 788
kochia 406, 536, 788
Kochia scoparia 164, 406, 536, 788
kriging 359, 773
Lablab purpureus 658
Lactuca sativa 141
LAI-2000 385
large crabgrass 141, 528, 549
leaf morphology 156
leaf nitrogen 706
leafy spurge 581, 590
leaf structure 628
leaf surface 156
lespedeza dodder 520
lettuce 141
LHCB 590
LI-191-S 385
LI-3100 385
light harvesting chlorophill a/b-binding protein 590
light intensity 668
light saturation 706
Linum usitatissimum 326, 406
linuron 99
Lolium multiflorum 141
Lolium perenne 385
LOLMU 141
LOLPE 385
Luria-Bertani Broth 590
Lycopersicon esculentum 61, 69, 91, 106, 141, 520
Lythrum salicaria 190
LYTSA 190
MACC 276
Macuna cochinchinensis 658
maize 346
MALPU 326
Malva pusilla 326
management system 491
managing risks 236
Manihot esculenta 171, 658
MAPK 581
mapping 359, 773
Margalef's D_{mg} 780
MCPA 2, 276, 290
MCPP 2, 276
mechanism of resistance 477
mechanistic model 723
mechanistic weed models 500
Melilotus officinalis 406
metabolism 607, 711, 717
metabolites 354
metapopulation 509
metolachlor 209
metribuzin 99, 106
metsulfuron 652
microbes 685
microbial characteristics 685
microbial metabolism 685
microsatellite 468
microsatellites 257
MIMIN 171
Mimosa invisa 171
minutes 298
mix-and-split synthesis 249
MKH-6561 788
mobility 571, 806
modeling 31, 123, 385, 617, 675
models 48, 184, 385, 768
molecular-based research 273
molecular biology 257
molecular genetics 276
molecular markers 257, 598
monoculture 694
monoecious 732
mouse-ear cress 266
mRNA 590
MSMA 549, 567
Mucuna deeringiana 123
mulch 491
multiplicity of stable states 414
multivariate analysis 491
mustard 141
mutant 266
My View 1, 149, 303, 437, 579
N-fertilization 77
National Center for Biotechnology 590
NCBI 590
negative cross-resistance 711
NES 581
net economic return 746
new chemicals 249
nicosulfuron . . . 106, 224, 359, 491, 635, 652, 675
Nigeria 171
nitrogen 77
nitrogen activated protein kinase 581
nitrogen management 558
NLS 581
nonlinear regression 48
non-mevalonate pathway 266
nonpoint source contamination 431
norflurazon 266, 647
nuclear export signal 581
nuclear localization signal 581
nutrient competition 558
on-farm weed research 536

optimization of inputs 675
ORACR 773
organic carbon 806
organophosphate insecticides 613
Orobanche crenata 773
ORYSA 468
Oryza rufipogon 468
Oryza sativa 141, 381, 395, 468, 652
Ostrinia nubilalis 209
palm leaf morningglory 628
Palmer amaranth 8, 59, 141, 454, 543, 598, 732
PANDI 549
Panicum dichotomiflorum 549
Panicum virgatum 647
parallel synthesis 249
parameter estimation 48
paraquat 99, 224
parasitic plants 520
parasitic weed 346, 354, 773
patch 773
patches 359
patchiness 509
patent disclosure 290
path correlation analysis 755
peanut 768
peanut diameter 768
peanut diseases 768
pendimethalin 123, 241, 395
perennial grass 647
perennial sowthistle 406
perennial weeds 581, 590
permethrin 209
persistence 571
pest 209
pest interaction 209
phenological development 500
phenology 177, 723
phorate 613
photoperiod 500
photosynthesis 8, 334, 706
photosynthetic inhibition 454
physical control 135
physical properties 423
physiological genetics 305
phytoene desaturase 266
phytopathogenic 642
phytotoxicity 558
picloram 2, 42, 276
pigweed species 780
pigweeds 217, 732
piperophos 395
Pisum sativum 406
pitted morningglory 367, 567, 628
PLALA 528
plant availability 571
plant diversity 257
Plantago lanceolata 528
planted fallow 658
plastoquinone 266
POLCO 326
POLLA 528
pollen transfer 14
pollen morphological differences 732
POLPE 326
Polygonum convolvulus 326
Polygonum persicaria 326
Polygonum lapathifolium 528
polymerase chain reaction 598
population dynamics 31, 69, 123, 209, 224, 509, 780
population genetic variation 257
POROL 326, 528
Portulaca oleracea 326, 528
Powell amaranth 448, 732
power function 217
precision farming 359, 536, 773
predicting 367
predicting weed infestations 367
prickly sida 141, 567
primisulfuron 652
probability-based analyses 543
project management 273
propagation 760
propagule 760
propanil 395
propanil resistance 395
prostrate pigweed 732
prostrate knotweed 528
Pseudomonas fluorescene 792
Pseudomonas syringae 642
Puccinia sorghi 209
PUEPH 658
Pueraria phaseoloides 658
purple loosestrife 190
purslane 326
pyrimidinyloxybenzoate 62
pyrithiobac 156, 543, 549, 567, 622
quackgrass 326
quantitative trait loci 305
quantitative analysis 528
quantum yield 454
quinclorac 395
quizalofop-P 477
rainfed 395
random sequencing 590
RAPDs 257
RB 581
red clover 558
red rice 468, 652
red rice classification 468
redroot pigweed 8, 106, 326, 448, 491, 528, 617, 668, 732
reduced herbicide rate 209, 746
reduced rates 22, 31
redvine 156
relative humidity 8, 668
relative growth rate 99
replacement series 42
reproduction 83
reproductive biology 83
research strategy 273
residues 406
resistance 164, 276, 395, 448
resistance management 395
resistant 42, 485
resistant gene 375
restriction endonuclease 598
retinoblastoma 581
RFLPs 257
rhizobacterium 792
Rhizoctonia solani 241
rhizoctonia 24
rhizome 760
rhizosphere 792
rice 141, 381, 395, 468, 652
rice by-products 141
rimsulfuron 106, 359, 652
riparian habitat 760
ROOEX 123
root rot 241
roots 150
rotation 236
Rottboellia cochinchinensis 123
round-leaved mallow 326
row spacing 746
RPA 201772 423
rubisco 706
runoff 571, 647
runoff events 647
Russian thistle 406, 536
rye 491
Sagittaria montevidensis 381
SAGMO 381
Salsola iberica 406, 536
sample area 217
sandhills amaranth 732
SASKR 536
scientific publication 290
Sclerotia 241
sclerotia production 241
screening 249
seasonal changes 150
seasonality 760
SEBEX 141
Secale cereale 491, 607
SECCE 607
sediment loss 647
seed 230
seed bank 230
seed classification 738
seed dormancy 305
seed germination 83, 190, 528
seed granivory 224
seed identification 738
seed longevity 83
seed number 190
seed persistence 230
seed polymorphism 738
seed predation 224
seed production . . 69, 83, 99, 190, 224, 334, 524
seed shape 738
seedbank 83
seedbank diversity 780
seedbank dynamics 780
seedling emergence 83, 230, 528
selectivity 717
SEM 156
Senna obtusifolia 367, 567
sequencing 257
sequential applications 375
Sesbania exaltata 141
Setaria 780
Setaria faberi 230, 635, 675
Setaria glauca 326
Setaria viridis 326
SETFA 230, 635
sethoxydim 477, 675
SETLU 326
SETVI 326
Shannon's diversity index 780
shattercane 798
shifting cultivation 658
sicklepod 141, 367, 567
Sicyos angulatus 99, 524
Sida spinosa 141, 567
SIDSP 141, 567
signal transduction 581, 590
simulation 195, 723
simulation analysis 509
simulation model 31
Sinapis arvensis 2
SINAR 2, 276, 326, 528
site energy 423
site-specific 798
site-specific agriculture 536
site-specific management 536
site-specific weed management 367
SIYAN 99
smallflower morningglory 628
smartweed 326
smooth pigweed 106, 549, 711, 732
sodium chloride citrate solution 590
soil 367, 423
soil depth 528
soil heterogeneity 798
soil organic amendments 558

soil seed bank 528, 746
Solanum carolinense 367
Solanum nigrum 491, 528
SOLCA 367
SOLNI 491, 528
SONAR 406
SONAS 359
Sonchus arvensis 406
Sonchus asper 359
SORBI 798
sorghum 346, 617, 622
Sorghum bicolor 346, 617, 622, 798
Sorghum halepense 477, 528
SORHA 477, 528
sorption 23, 806
source-sink 509
soybean . . . 22, 31, 106, 141, 177, 217, 241, 334, 359, 367, 571, 635, 642, 668, 675, 703
spatial 798
spatial arrangement 61, 69
spatial distribution 773
spatial dynamics 359
spatial variability 367
spatial weed model 414
spatially explicit 509
species-area curve 217
species area relationship 217
species diversity 217
species frequency 217
species richness 217
Spergula arvensis 528
spiny amaranth 732
spiny sowthistle 359
split-pool synthesis 249
split plot design 209
Sporisorium ophiuri 123
SPRAR 528
spray droplet 628
spray droplet area spread 628
spring wheat 406, 536, 558
spurred anoda 567
SSC 590
SSLP 468
SSRs 257
stability 359
stage of growth 375
Stellaria media 528
STEME 528
sterile oat 77
stomatal conductance 4545
striga 346
Striga hermonthica 346, 354
submersed plants 135
subsoiling 571, 685
subterranean clover 491
sucrose 150
sulcotrione 266
sulfonamide 806
sulfonyl herbicides 106
sulfonylaminocarbonyltriazolinone 788
sulfonylurea 635, 652
surface runoff 647
surface wind erodible soil 431
sweet corn 209, 558
sweet lablab 658
switchgrass 647
symposium Introduction 248
tall fescue 647
tall waterhemp 732
Taraxacum officinale 150, 326, 359, 406
TAROF 150, 326, 359, 406
tefluthrin 209
temperature 8, 500, 668, 694
terbacil 99
terbufos 326
terminology 305
thermal application range 543
thifensulfuron 448, 652
THLAR 326, 406
Thlaspi arvense 326, 406
threshold 414
thresholds 31, 61, 69
tillage 217, 491, 685
tillage systems 571
time of emergence 617
time of removal 326
tocopherol 266
tolerance 91, 375, 520
tolerant crops 141
tomato 61, 69, 91, 106, 141, 520
tomato varieties 520
tralkoxydim 536, 746
transformed cotton 375
transgenic cotton 549
transgenic crops 460
translocation . . . 8, 454, 460, 477, 607, 711, 717
translocation metabolism 61
triasulfuron 652
triazolopyrimidine 652
tribenuron 652
trifluralin 106, 549
Trifolium incarnatum 491
Trifolium pratense 558
Trifolium subterraneum 491
triphenyl-tetrazolium chloride 685
Tripsacum dactyloides 647
triticale 77
Triticum aestivum . . . 48, 77, 326, 340, 406, 536, 558, 607, 717, 755, 788
tropic croton 184
tropical kudzu 658
trumpetcreeper 156
TTC 685
tubers 135
tumble pigweed 732
turions 135
21st century 282
UABs 581
uncoupler 454
under seeding 406
underground adventitious buds, review 581
Ustilaginales 123
variable herbicide rate 746
vegetative buds 581
vegetative growth 760
velvetbean 123, 688
velvetleaf 22, 31, 91,141, 195, 230, 528, 668, 706, 798
verticillium 22
Verticillium dahliae 22, 31
verticillium wilt 31
Vicia faba 773
Vigna unguiculata 658
VIGS 581
VIGUN 658
virus induced gene silencing 581
volunteer barley 326
volunteer flax 326
volunteer wheat 326
water deficit 694
water-seeded rice 381
wax composition 156
weed biology 177, 334, 439
weed biomass 184, 768, 798
weed community 491
weed competition 558
weed-competitive soybean varieties 642
weed control 520
weed-crop competition 77
weed density 184, 202, 755, 768
weed diversity 491
weed ecology 177, 334, 642
weed height 184, 768
weed infestation 367
weed interference 326
weed life cycle 236
weed management 106, 282, 406,414, 549, 558, 658
weed management site-specific 359
weed populations 385
weed seedbank 780
weed shifts 106
weed suppression 61, 406, 658
wheat 77, 340, 607, 717, 788
wild buckwheat 326
wild mustard 2, 276, 326, 528
wild oat 236, 326, 536, 694, 746
wild oat development 694
wild oat growth 694
wild mustard growth 558
wilt 22
wind erosion 431
wind erodible soil 431
winter annual grass 717
winter annual grass weed management . . 607
winter cereals 77
winter wheat 48, 607, 755
winter wild oat 414
witchweed striga 354
wooly cupgrass 230
World War II secrecy 290
X Triticosecale 77
XANST 318, 622
Xanthium strumarium 318, 622
yellow foxtail 326
yellow starthistle 42, 83, 439
yellow sweet clover 406
yield 48
yield loss 91, 202, 381, 385
yield loss description model 385
yield loss prediction 755
Zea mays . . 22, 31, 106, 123, 141, 177, 195, 202, 209, 217, 224, 334, 346, 359, 491, 524, 558, 571, 635, 658, 675, 703, 706, 798